

Notice of Allowability

Application No.

10/759,687

Examiner

Nhan T. Le

Applicant(s)

LIM ET AL.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 01/16/2004.
2. ☒ The allowed claim(s) is/are 1-11.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 07/20/06
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

DETAILED ACTION

Allowable Subject Matter

Claims 1-11 are allowed.

The following is an examiner's statement of reasons for allowance:

Regarding to claim 1, Fujioka (US 6,907,227) teaches method and system for managing wireless connection between slave terminals and master terminal; Cannon et al (US 6,650,871) teaches cordless RF range extension for wireless piconets; Vij et al (US 20020196771) teaches bridging apparatus for interconnecting a wireless pan and a wireless LAN; Sugaya et al (US 20040008641) teaches communication system, communication control apparatus and method and computer program therefor; Lin et al (US 20040136338) teaches method and system of Bluetooth network; Lynch, Jr. et al (US 20040266439) teaches system, methods and computer program products for connecting AD hoc piconets to wide area networks. The teaching of these prior arts either combine or alone fails to teach one timeslot allocated by a device located in the parent piconet, the first device receiving information concerning at least one of the plurality of devices that are located in the parent piconet, generating mapping information for bridging, and storing the generated mapping information in a first B-MIB (Bridging Management Information Base), detecting information of a destination device from the mapping information stored in the first B-MIB and transmitting the data containing the detected information, at least one C-PNC (Child Piconet Coordinator) device, located in a common area between the parent and child piconets, including a C-MIB and a P-MIB (Parent Piconet Management Information Base) for storing mapping

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information associated with the devices located in the parent piconet, wherein the C-PNC device broadcasts the mapping information stored in the C-MIB and P-MIB to different piconets and switches and transmits the data from the first device to the parent piconet and the second device generating mapping information for bridging associated with the devices located in the child piconet from the mapping information broadcast by the C-PNC device, storing the generated mapping information in a second B-MIB and receiving the data from the C-PNC device.

Dependent claims 2-6 are allowed for the same reason.

Regarding to claim 7, Fujioka (US 6,907,227) teaches method and system for managing wireless connection between slave terminals and master terminal; Cannon et al (US 6,650,871) teaches cordless RF range extension for wireless piconets; Vij et al (US 20020196771) teaches bridging apparatus for interconnecting a wireless pan and a wireless LAN; Sugaya et al (US 20040008641) teaches communication system, communication control apparatus and method and computer program therefor; Lin et al (US 20040136338) teaches method and system of Bluetooth network; Lynch, Jr. et al (US 20040266439) teaches system, methods and computer program products for connecting AD hoc piconets to wide area networks . The teaching of these prior arts either combine or alone fails to teach at least one timeslot allocated by a device located in the parent piconet, the high-speed WPAN system comprising: a first device, located in the child piconet, including a C-MIB (Child Piconet Management Information Base) for storing mapping information associated with devices located in the child piconet and a first B-MIB (Bridging Management Information Base) for storing mapping information to

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be bridged to the devices located in the parent piconet; at least one C-PNC (Child Piconet Coordinator) device, located in a common area between the parent and child piconets, including a C-MIB and a P-MIB (Parent Piconet Management Information Base) for storing mapping information associated with the devices located in the parent piconet and a second device, located in the parent piconet, including a P-MIB and a second B-MIB for storing mapping information to be bridged to the devices located in the child piconet, further comprising the steps of: (a) detecting destination information of data by the first device, said destination information to be transmitted from the mapping information stored in the first B-MIB.

Dependent claims 8-9 are allowed for the same reason.

Regarding to claim 10, Fujioka (US 6,907,227) teaches method and system for managing wireless connection between slave terminals and master terminal; Cannon et al (US 6,650,871) teaches cordless RF range extension for wireless piconets; Vij et al (US 20020196771) teaches bridging apparatus for interconnecting a wireless pan and a wireless LAN; Sugaya et al (US 20040008641) teaches communication system, communication control apparatus and method and computer program therefor; Lin et al (US 20040136338) teaches method and system of Bluetooth network; Lynch, Jr. et al (US 20040266439) teaches system, methods and computer program products for connecting AD hoc piconets to wide area networks . The teaching of these prior arts either combine or alone fails to teach at least one timeslot allocated by a device located in the parent piconet, the high-speed WPAN system comprising: a first device, located in the child piconet, including a C-MIB (Child Piconet Management Information Base) for

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storing mapping information associated with devices located in the child piconet and a first B-MIB (Bridging Management Information Base) for storing mapping information to be bridged to the devices located in the parent piconet, at least one C-PNC (Child Piconet Coordinator) device, located in a common area between the parent and child piconets, including a C-MIB and a P-MIB (Parent Piconet Management Information Base) for storing mapping information associated with the devices located in the parent piconet and a second device, located in the parent piconet, including a P-MIB and a second B-MIB for storing mapping information to be bridged to the devices located in the child piconet, further comprising the steps of: (a) detecting destination information of data by the second device to be transmitted from the mapping information stored in the second B-MIB.

Dependent claim 11 is allowed for the same reason.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nhan T. Le whose telephone number is 571-272-7892. The examiner can normally be reached on 08:00-05:00 (Mon-Fri).

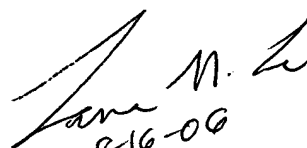
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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Urban can be reached on 571-272-7899. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

N, Le

Nhan Le


8-16-06
LANA LE
PRIMARY EXAMINER